

# TWO-PIECE BALL VALVES

## H700 SERIES



# BALL VALVE WITH LOCKING DEVICE H700 SERIES

## FEATURES

- Explosion Proof Stem
- Stainless Steel and Brass Constructions
- **One piece ball valve with female configurations**
- Locking Handle in On and Off positions
- MAWP 2000 psi (13.5 Bar)
- MAWT 400°F (204°C)
- Flow coefficient (Cv) 1.25 to 17.35
- Size range: 1/4" to 1" or 6mm to 25mm

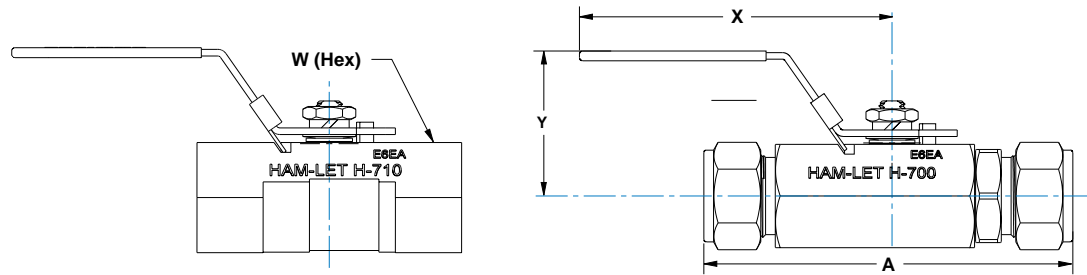
## GENERAL

The H700 Series is a moderate-pressure ball valve for general service. These valves are compact in size and structure. They have relatively large ports for high flow, tight shutoff, long-life service and low operating torque. The H700 Series can be used for bi-directional flow. The series is rated to max. 2000 psig (135 bar) and performs on/off service.

MATERIALS			
No.	Part	Qty.	Material
1	Nut	1	St.St.304
2	Spring Washer	1	St.St.304
3	Handle	1	St.St.304
4	Locking Device	1	St.St.304
5	Belleville Washer	1	St.St.304
6	Flat Washer	1	St.St.304
7	Stem Packing	1	PTFE
8	Stem Seal	1	PTFE
9	Stem	1	St.St.316
10	Body	1	St.St.316
11	Ball	1	St.St.316
12	Seat	2	TFM®1600
13	Gasket	1	PTFE
14	End	1	St.St.316
15	Front Ferrule	2	St.St.316
16	Back Ferrule	2	St.St.316
17	Nut LET-LOK®	2	St.St.316

Lubricant: silicon-based grease for oxygen applications, according to HAM-LET Procedure 8055

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## H700 SERIES DIMENSIONS

End Connection		Order Type	CV	Orifice		A		X		Y		W (HEX)
Type	Size			mm	in	mm	in	mm	in	mm	in	
Fractional LET-LOK® Tube Fittings	1/4	H-700	1.25	5.0	0.2	90.0	3.54	82.0	3.23	38.0	1.50	17mm
	3/8	H-700	2.50	7.0	0.28	90.0	3.54	82.0	3.23	40.0	1.57	21mm
	1/2	H-700	9.25	9.2	0.36	95.3	3.75	82.0	3.23	40.7	1.60	25mm
	3/4	H-700	12.65	12.5	0.49	113.4	4.46	82.0	3.23	44.5	1.75	32mm
	1	H-700	17.35	15	0.59	129.6	5.10	102.0	4.02	50.0	1.97	38mm
Metric LET-LOK® Tube Fittings	6MM	H-700	1.25	5.0	0.20	90.0	3.54	82.0	3.23	38.0	1.50	17mm
	8MM	H-700	1.35	7.0	0.28	90.0	3.54	82.0	3.23	40.0	1.57	21mm
	10MM	H-700	2.6	9.2	0.36	95.3	3.75	82.0	3.23	40.7	1.60	25mm
	12MM	H-700	9.25	12.5	0.49	113.4	4.46	82.0	3.23	44.5	1.75	32mm
	25MM	H-700	17.35	15	0.59	129.6	5.10	102.0	4.02	50.0	1.97	38mm
Female NPT	1/4	H-710	1.35	5.0	0.20	50.0	1.97	67.0	2.64	47.0	1.85	16.5mm
	3/8	H-710	2.6	7.0	0.28	60.0	2.36	67.0	2.64	49.0	1.93	20.7mm
	1/2	H-710	9.25	9.0	0.35	75.0	2.95	90.0	3.54	57.0	2.24	25mm
Male NPT	1/4	H-780	1.35	5.0	0.20	50.3	1.98	82.0	3.23	38.0	1.50	17mm
	3/8	H-780	2.5	7.0	0.28	62.2	2.45	82.0	3.23	40.0	1.57	21mm
	1/2	H-780	9.25	9.2	0.36	74.9	2.95	82.0	3.23	40.7	1.60	25mm
Male NPT to LET-LOK®	1/4 to 1/4	H-795	1.25	5.0	0.20	70.15	2.76	82.0	3.23	38.0	1.50	17mm
	3/8 to 3/8	H-795	2.5	7.0	0.28	76.10	2.99	82.0	3.23	40.0	1.57	21mm
Tube Fittings	1/2 to 1/2	H-795	9.25	9.2	0.36	85.10	3.35	82.0	3.23	40.7	1.5	25mm

Dimensions are for reference only, and are subject to change.

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## CLEANING & PACKAGING

HAM-LET's H700 Ball Valve is treated with HAM-LET Passivation Cleaning and Packaging (Procedure 8075).

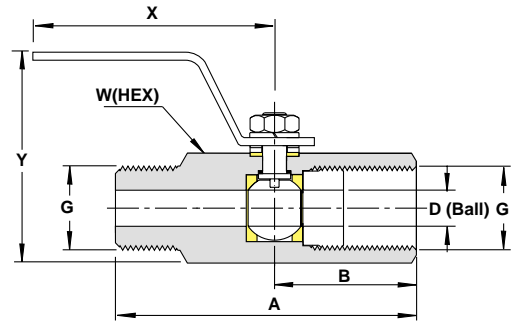
HAM-LET H700 Ball Valves with face seal end connections are treated with Oxygen Cleaning and Packaging (Procedure 8055).

## TESTING

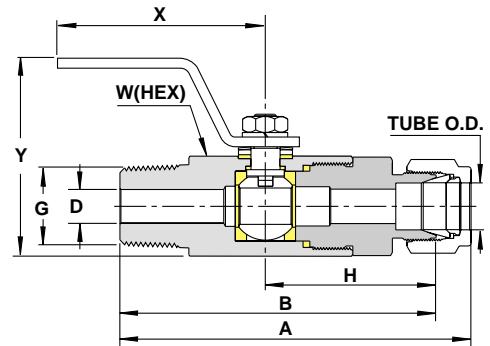
The H700 Series Ball Valve designs have been tested for Proof and Burst.

Every H700 Ball Valve is factory tested with nitrogen at 1000 psi (69 bar). Maximum allowable leak age across seats is 0.1 std cc/min.

H785													
G (THREAD)	CV	D (Minimum Orifice)		A		B		W (HEX)		X		Y	
		mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
1/4" - 19BSPP	1.35	5.0	0.2	50.0	1.97	24.85	0.98	17.0	0.67	60.0	2.36	39.0	1.54
1/4" - 18NPT								19.05	3/4			40.0	1.57
1/2" - 14BSPP	9.25	9.0	0.35	75.0	29.5	37.55	1.48	27.0	1 1/16	82.0	3.23	56.6	2.23
1/2" - 14NPT													



H795																
Tube O.D.	G (THREAD)	CV	D (Minimum Orifice)		A		B		H		W (HEX)		X		Y	
			mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
3/8"	1/4"-18NPT	2.50	7.10	0.28	76.7	3.02	69.35	2.73	38.25	1.505	20.6	13/16	82	3.23	50.8	2



## TFM 1600 SEAT PRESSURE VS. TEMPERATURE CHART

H-700 Valve 1/4" to 1" for valves rated to 2000 psig

